



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,208	03/12/2004	Akihiko Itami	KOY-26	2071
20311	7590	07/18/2006	EXAMINER	
LUCAS & MERCANTI, LLP 475 PARK AVENUE SOUTH 15TH FLOOR NEW YORK, NY 10016			GOODROW, JOHN L.	
			ART UNIT	PAPER NUMBER
			1756	

DATE MAILED: 07/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/800,208

Applicant(s)

ITAMI ET AL.

Examiner

John L. Goodrow

Art Unit

1756

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-992)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. Claims 1-20 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicants' arguments over non-enablement have been considered and deemed persuasive. However the claims fail to reasonably appraise one of ordinary skill in the art of the scope of the claimed invention. While the physical property of TOF can be measured for a material of the CTL by one of ordinary skill in the art, the claims do not reasonably define the specific materials, or even broad class of materials, upon which such measurements are to be made. The failure of the claims to particularly point out and distinctly claim the disclosed invention is highlighted by applicants description of what they intend to encompass by their claims. Applicants intend to seek patent protection on all future organic CGM and all CTM in a CTL of 8-15 microns. They have only disclosed how to make such a photoconductor from 2 CGM and 5 CTM. The specification does not provide enablement for one of ordinary skill in the art that is reasonably commensurate in scope with the degree of protection sought by the applicants.

***Claim Rejections - 35 USC § 103***

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakon et al [20030049555]. Sakon teaches a CTL having 8-22 microns note [0166]. The TOF of a CTL would be inherent to the charge transport materials as taught on page 8.

It would be obvious to one of ordinary skill in the art at the time of applicants' invention reasonable expectation of success to use CTM in a CTL to have the physical properties of the TOF for the same thickness of CTL.

3. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kinoshita et al [5824444]. Kinoshita et al teaches a charge transport layer having a thickness of 10-20 nm Col. 43 and measures the drift mobility. It would be obvious to one of ordinary skill in the art at the time of applicants' invention reasonable expectation of success to use CTM in a CTL to have the physical properties of the TOF for the same thickness of CTL.

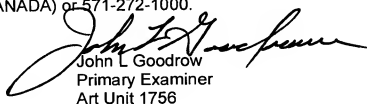
4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimada et al [5462826]. Shimada et al teaches a photoconductor with a phthalocyanine CGM and a CTL of from 5-20 microns. With the same material it is inherent that the PC have the same physical properties such as TOF. It would be obvious to one of ordinary skill in the art at the time of applicants' invention reasonable expectation of success to use CTM in a CTL to have the physical properties of the TOF for the same thickness of CTL.

5. Applicants should show that the TOF is not inherent in the above references by way of affidavits.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L. Goodrow whose telephone number is 571-272-1384. The examiner can normally be reached on Monday -Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F. Huff can be reached on 571-272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



John L. Goodrow  
Primary Examiner  
Art Unit 1756

\*\*\*